

ABSTRAK

Penelitian ini berjudul “Kondisi Tutupan Karang dan Hubungannya dengan Kandungan Mikroplastik di Perairan Semak Daun, Gosong Balik Layar dan Karya Kepulauan Seribu”. Tujuan penelitian adalah mengetahui persentase tutupan karang, dan kandungan mikroplastik pada air dan karang, serta hubungannya dengan kondisi tutupan karang di Pulau Semak Daun, Gosong Balik Layar dan Karya, Kepulauan Seribu Jakarta. Pengambilan data tutupan karang menggunakan metode *Point Intercept Transect* (PIT). Sampel mikroplastik pada air diambil menggunakan plankton net dan pada karang diambil dengan cara memotong bagian ujung karang dan dilakukan pengamatan di laboratorium. Analisis data tutupan karang dan kandungan mikroplastik menggunakan analisis deskriptif, sedangkan analisis hubungan persentase tutupan karang dengan mikroplastik pada air dan karang menggunakan korelasi. Hasil penelitian menunjukkan persentase tutupan karang berkisar antara 16-52%. Kandungan mikroplastik pada air sekitar 61-127 partikel, dan pada karang 6-21 partikel. Hasil analisis korelasi pearson menunjukkan terdapat hubungan cukup kuat hingga kuat (R^2 : 0,523-0,563) antara tutupan karang dengan kandungan mikroplastik di air dan karang pada ketiga Pulau.

Kata kunci : karang, tutupan karang; kandungan mikroplastik; Pulau Semak Daun, Gosong Balik Layar dan Karya, Kepulauan Seribu

ABSTRACT

This research entitle “The Relationship of Coral Cover Condition with Microplastic Content in Water of Semak Daun, Gosong Balik Layar and Karya Thousand Islands”. The research objective was to determine percentage of coral cover, and to know the microplastic content on water and coral and its relationship with coral cover conditions Semak Daun, Gosong Balik Layar and Karya Islands, Thousand Islands Jakarta. Coral cover data were collected by retrieval using Point Intercept Transect (PIT). The microplastic samples on water were taken used plankton net and on coral by cutting of the tip of the coral and observed it in the laboratory. The analysis of coral cover data and microplastic content analysis was used descriptive analysis, while the analysis of the relationship between the percentage of coral cover and microplastic on water and coral using correlation. The results showed that the percentage of coral cover ranged from 16-52%. Microplastic content in water ranges from 61-127 particles, 6-21 particles on coral. The results of pearson correlation analysis showed that strong enough to strong (R^2 : 0.523-0.563) correlation between the condition of coral cover and microplastic content in the water and coral on the three Islands.

Key Words : *coral; coral cover; microplastic content; Semak Daun Island, Gosong Balik Layar and Karya, Thousand Island.*